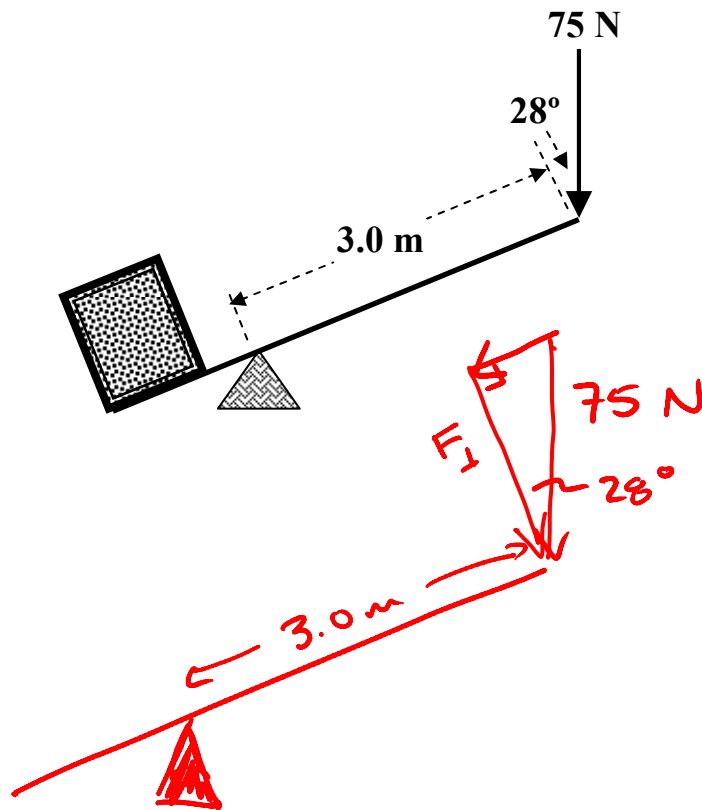


**Example #7.** A smart physics student attempts to lift a heavy crate by using a lever system. She pushes on the lever with a force as shown below. What torque is created by this student?



$$F_{\perp} = 75 \cos 28^{\circ} = 66.2 \text{ N}$$

$$\tau = 66.2 (3.0)$$

$$\tau = 2.0 \times 10^2 \text{ N} \quad (199 \text{ N})$$